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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's the reference	•		
8399-010-228	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/mor		
PCT/US03/30737 26 September 2003 (26.0		26 September 2002 (26.09.2002)	
International Patent Classification (IPC)	or national classification and IPC		
IPC(7): C12P 21/06 and US Cl.: 435/ 69	0.1	_	
Applicant			
UNIVERSITY OF MARYLAND BIOTE	CHNOLOGY INSTITUTE	•	
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 			
2. This REPORT consists of	a total of 3 sheets, including	this cover sheet.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.			
3. This report contains indicat	tions relating to the following i	torne:	
I Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application			
VIII Certain observations on the international application			
Date of submission of the demand	Date of	of completion of this report	
26 April 2004 (26.04.2004)		20 October 2004 (20.10.2004)	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US		ized officer	
Commissioner for Patents P.O. Box 1450	COO	Line Bell-Harrifan	
Alexandria, Virginia 22313-1450		one No. (571) 272-1600	
rm PCT/IPEA/409 (cover sheet)/hit; 1009)			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US03/30737	

T	Roc	ris of the manage
-		sis of the report
1.	W.III	h regard to the elements of the international application:*
	\bowtie	the international application as originally filed.
		the description:
		pages 1-14 as originally filed pages NONE, filed with the demand
		pages NONE , filed with the letter of
	\boxtimes	the claims:
		pages 15 and 16 , as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE, med with the demand
		the drawings: pages 1-12 as originally filed
		pages 1-12 , as originally filed pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
٠.		pages NONE as originally filed
		pages NONE , filed with the demand
2.	With	pages NONE, filed with the letter of
		h regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the supposes of interesting 1.
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
		community was carried out on the basis of the sequence listing:
	닏	contained in the international application in printed form.
	<u> </u>	filed together with the international application in computer readable form.
	<u>니</u>	furnished subsequently to this Authority in written form.
ļ	י עַ	furnished subsequently to this Authority in computer readable form.
-		The statement that the subsequently furnished written sequence licing does not a sequence licing does
1	j	international application as filed has been furnished.
I		The statement that the information recorded in computer readable form is identical to the matter
		has been furnished.
4. [\bowtie	The amendments have resulted in the cancellation of:
	Ţ	the description, pages None
	Ī	N /1
	i	the claims, Nos. None
ς Γ	¬¬ .'	the drawings, sheets/fig None
), F	_] ;	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Rev (R. 1, 2004).
* R	eplace.	ement sheets which have been firmished to the maritime of the state of
his i	report	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in consistent and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
** ⁄1	ny rep	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.
		IDEA //00 (Por D. (V.)., 1000)



International application No. PCT/US03/30737

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. STATEMENT			
Novelty (N)	Claims Claims		_YES _NO
Inventive Step (IS)	Claims Claims		_YES _NO
Industrial Applicability (IA)	Claims Claims		_YES _NO
Claims 1-16 meet the criteria set out in PCT Article 33		ause the prior art does not teach or fairly suggest the claimers	
can be made or used in industry.	(manufacture de	
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Form PCT/IPEA/409 (Box V) (July 1998)



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NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

(PCT Rule 66.6)

International application No.	Applicant's or agent's file reference		Date of informal communication		
PCT/US03/30737	8399-010-228		(day/month/year) 20 October 2004 (20.10.2004)		
Applicant	0377-010-228		20 October 2004 (20.10.2004)		
UNIVERSITY OF MARYLAND BIOTI	CHNOLOGY INSTITUTE	3			
Communication Participants		Identity	authorization personally		
Colimantential		checked	checked known		
by telephone Applican	: UNIVERSITY OF M	ARYLAND BIOTI	ECHNOLOGY INSTITUTE		
personal Agent:	personal Agent: Liniak Thomas (reg# 33415)				
Examine	(s): Khatol Shahnan-Shah				
1		 	 		
Summary of communication:					
Attorney was notified that IPER 409/41	6 will be submitted				
Awiney was nothed that IFER 409/41	o will be subilitied.				
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As agreement of the limit is seened of the Demonstration					
An extension of time limit is granted (Form PCT/IPEA/427.					
A copy of this note is being sent to the applicant with Form PCT/IPEA/429.					
РСТ/ІРЕА/424.					
Name and mailing address of the IPEA/ Mail Stop PCT, Attn: IPEA/US	OB .	Authorized office	$\mathbf{E} \mathbf{Q} = \mathbf{M} \mathbf{U} + \mathbf{Q}$		
Commissioner for Patents		Charol Spanner	Bell-Harrisfer		
P.O. Box 1450 Alexandria, Virginia 22313-1450		- Standard Gindingle			
Facsimile No. (703)305-3230		Telephone No. (571) 272-1600		

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